WHAT IS CLAIMED IS:

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A solid-state imaging device, comprising:

 a substrate with a flat board form that is made of an insulating

resin;

an imaging element that is fixed onto the substrate;

a rib with a rectangular frame form in a planar shape, which is provided on the substrate so as to surround the imaging element;

a transparent plate that is fixed to a top face of the rib;

a plurality of wirings for conducting electricity from inside of a package to outside of the package, the package being comprised of the substrate, the rib and the transparent plate; and

thin metal wires provided in a space within the package, which connect electrodes of the imaging element with the respective wirings,

wherein each of the plurality of wirings includes: an internal electrode disposed on a surface with the imaging element mounted thereon; an external electrode disposed on a rear surface of the imaging-element mounted surface and at a position corresponding to the internal electrode; and an end face electrode disposed on an end face of the substrate, which connects the internal electrode and the external electrode, and

an end face of the substrate, a side face of the rib and an end face of the transparent plate, which correspond to a side face of the package, form a substantially coplanar surface.

- 25 2. The solid-state imaging device according to claim 1, wherein the end face of the substrate, the side face of the rib and the end face of the transparent plate are in a plane formed by cutting them sequentially in a single operation.
 - 3. The solid-state imaging device according to claim 1, wherein an internal side face of the rib has a tilt such that the internal side face spreads outwardly from a face of the substrate toward the transparent plate.
- 4. The solid-state imaging device according to claim 3, wherein the internal side face of the rib has a flat surface, and an angle of the tilt is within a range of 2° to 12° with respect to a direction perpendicular to the

face of the substrate.

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- 5. The solid-state imaging device according to claim 1, wherein an orange peel skin pattern or a grained pattern is formed on an internal side face of the rib.
- 6. The solid-state imaging device according to claim 1, wherein an internal side face of the rib has a flat surface, and an external side face and the internal side face of the rib are perpendicular to the face of the substrate.
- 7. The solid-state imaging device according to claim 1, wherein the end face electrode is disposed in a recess that is formed on the end face of the substrate, and
- a surface of the end face electrode forms a substantially coplanar face with the end face of the substrate, or is recessed relative to the end face of the substrate.
- 8. The solid-state imaging device according to claim 1, wherein a surface of the external electrode forms a substantially coplanar surface with the rear surface of the substrate.
 - 9. The solid-state imaging device according to claim 1, wherein a surface of the external electrode is recessed relative to the rear surface of the substrate.
 - 10. The solid-state imaging device according to claim 9, wherein an insulation film is formed on the rear face of the substrate, and
- the insulation film and the external electrode are arranged so as not to overlap each other.
 - 11. The solid-state imaging device according to claim 9, wherein an insulation film is formed on the rear face of the substrate, and
 - a peripheral portion of the external electrode and the insulation film are arranged so as to overlap each other.

12. A method for producing the solid-state imaging device according to claim 1, comprising the steps of:

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forming a top-side conductive layer and a bottom-side conductive layer on a top face and a bottom face of a base material with a flat board form that is made of an insulation resin so that the top-side conductive layer and the bottom-side conductive layer correspond to a plurality of groups of the wirings for composing a plurality of the solid-state imaging devices, and forming a perforation conductive layer that penetrates through the base material so as to connect the top-side conductive layer and the bottom-side conductive layer;

providing a rib formation member for forming the rib on the base material at a boundary between regions, each of which is for forming one of the plurality of solid-state imaging devices, so that the rib formation member extends transversely with respect to the top-side conductive layer above the perforation conductive layer;

fixing the imaging element in each region surrounded by the rib formation member and connecting the electrode of the imaging element and the top-side conductive layer by means of the thin metal wire;

fixing the transparent plate to a top end face of the rib formation member; and

cutting the base material, the rib formation member and the transparent plate sequentially in a single operation in a direction perpendicular to the base material and in a direction that divides a width in a planar shape of the rib formation member into halves so as to separate the plurality of solid-state imaging devices into the respective pieces.

- 13. The method for producing the solid-state imaging device according to claim 12, wherein the rib formation member is formed in a lattice form.
- 14. The method for producing the solid-state imaging device according to claim 12, wherein the rib formation member is formed on the base material by resin forming.
- 35 15. The method for producing the solid-state imaging device according to claim 14, wherein the resin forming is carried out by molding using molds.

16. The method for producing the solid-state imaging device according to claim 15, wherein, when forming the rib formation member by the resin molding, a sheet for suppressing generation of the resin flash is interposed between a mold for the resin molding and the base material.